

## **PIYAPORN JIRAWATCHARADECH, PhD**

### **AFFILIATION**

Department of Microbiology  
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Silpakorn University  
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### **EDUCATION**

2014-2019                      Liverpool School of Tropical Medicine  
**PhD,**

Thesis title: Characterisation of *Plasmodium falciparum* NADPH-dependent diflavin reductase I (PfDFR1) and its role in primaquine mechanism of action.

2009-2013                      Mahidol University  
**M.Sc. Biochemistry,**

Thesis title: Fluorescence-based assay of *Plasmodium falciparum* GTP cyclohydrolase I.

2005-2009                      Mahidol University  
**B.Sc. (Hons) Biology,**

Dissertation: Investigate the effect of *Wolbachia AlbA* and *AlbB* on Dengue Serotypes 1, 2, 3 and 4 in an *Aedes albopictus* Cell Line.

2003-2005                      Mahidol Wittayanusorn School  
**High School Diploma**

### **AWARDS**

2019-2020                      Faculty of Science, Silpakorn University, grant number SRIF-PRG-2562-12

2014-2018                      Royal Thai Government, Thailand

2010-2012                      Thailand Graduate Institute of Science and Technology (TGIST) from NSTDA, Thailand

2009-2010                      Graduate student awards from Mahidol University, Thailand

2005-2009                      Institutional Strengthening Program from Mahidol University<sup>[1]</sup> Young Scientist and Technologist Programme (YSTP) from NSTDA, Thailand

## PUBLICATIONS

- Camarda, G., **P. Jirawatcharadech**, R. S. Priestley, A. Saif, S. March, M. H. L. Wong, S. Leung, A. B. Miller, D. A. Baker, P. Alano, M. J. I. Paine, S. N. Bhatia, P. M. O'Neill, S. A. Ward and G. A. Biagini (2019). "Antimalarial activity of primaquine operates via a two-step biochemical relay." Nat Commun **10**(1): 3226.
- Kumpornsin, K., N. Kotanan, P. Chobson, T. Kochakarn, **P. Jirawatcharadech**, P. Jarupornpan, Y. Yuthavong and T. Chookajorn (2014). "Biochemical and functional characterization of *Plasmodium falciparum* GTP cyclohydrolase I." Malar J **13**: 150.
- Kumpornsin, K., C. Modchang, A. Heinberg, E. H. Ekland, **P. Jirawatcharadech**, P. Chobson, N. Suwanakitti, S. Chaotheing, P. Wilairat, K. W. Deitsch, S. Kamchonwongpaisan, D. A. Fidock, L. A. Kirkman, Y. Yuthavong and T. Chookajorn (2014). "Origin of robustness in generating drug-resistant malaria parasites." Mol Biol Evol **31**(7): 1649-1660.

## PRESENTATIONS

- **Piyaporn Jirawatcharadech**, Grazia Camarda, Christina Yunta-Yanes, Mark J.I. Paine, Stephen A. Ward, Giancarlo A. Biagini. "Identification of *Plasmodium falciparum* oxidoreductase involved in hydrogen peroxide production from primaquine metabolites". Liverpool School of Tropical Medicine PGR Student Conference, Liverpool, UK, 1<sup>st</sup> May 2018
- **Piyaporn Jirawatcharadech**, Grazia Camarda, Christina Yunta-Yanes, Mark J.I. Paine, Giancarlo A. Biagini, Stephen A. Ward. "Identification and characterisation of *Plasmodium falciparum* NADPH-cytochrome P450 reductase". Liverpool School of Tropical Medicine PGR Student Conference, Liverpool, UK, 4<sup>th</sup> May 2017
- **Piyaporn Jirawatcharadech**, Grazia Camarda, Christina Yunta-Yanes, Mark J.I. Paine, Giancarlo A. Biagini, Stephen A. Ward. "Expression and characterisation of *Plasmodium falciparum* NADPH-cytochrome P450 reductase". BSP Spring Meeting, Dundee, UK, 2<sup>nd</sup>-5<sup>th</sup> April 2017
- **Piyaporn Jirawatcharadech**, Grazia Camarda, Christina Yunta-Yanes, Mark J.I. Paine, Giancarlo A. Biagini, Stephen A. Ward. "Expression, purification and characterisation of *Plasmodium falciparum* NADPH-cytochrome P450 reductase" Health and Life Sciences Poster Day 2016, Liverpool, UK, 10<sup>th</sup> June 2016